Rice University
Civil and Environmental Engineering

CEVE 481 Senior Design
Fall 2014 Syllabus

Revised 9-12-2013

Date 2014	Week No.	TOPIC
Fri 29-Aug	1	***Discussion: Introduction to the class***. ***Design Project Presentations*** *– Several potential projects for senior design will be presented.* ***Assignment:*** *Write a paragraph on why you chose to be an engineer and what you intend to practice (i.e. environmental, general civil, structural, etc.) and complete initial class survey, Decide on Teaming and Projects – due on Aug 31. Research images of each of the 6 projects to help determine the vision of the owner and bring to class for presentation* ***Handout :*** *Beginning Class Survey & Draft Syllabus; Site Assessment Tools* ***Instructors*****:** Charles Penland, Phillip de Blanc.
Fri 5-Sep	2	***Discussion: Site Analysis and Design Methods*** *- What considerations are required when addressing a site for design of a building. Review images for project visioning.* ***Assignment****: Review City of Houston Codes, Design Manual and Environmental Summary Guidance Document, Provide a document discussing the applicable codes and rules to the chosen project.* ***Instructors****: Charles Penland and Phillip de Blanc*
Fri 12-Sep	3	***Discussion: Ordinances, Codes and Design Requirements*** Design rules, ordinances, criteria, codes and design requirements. ***Assignment:*** Prepare presentations ***Instructors:*** Charles Penland.
Fri 19-Sep	4	***Discussion: Senior Project Presentations Group 1 –*** *Presentation of Senior Project options and Teaming discussion* ***Instructors***: Charles Penland and Phillip de Blanc
Fri 26-Sep	5	***Discussion: Senior Project Presentations Group 2 –*** *Presentation of Senior Project options and Teaming discussion* ***Instructors***: Charles Penland and Phillip de Blanc
Fri 3-Oct	6	***Discussion: Site Remediation Design Case Study*** *– An overview of what will be required on your projects to provide site remediation design.* ***Instructor*****:** Phillip de Blanc, GSI Environmental
Fri 10-Oct	7	***Discussion: AutoCAD*** – The first of 3 classes on CAD training. *Classes 2 and 3 are to be on a date to be scheduled from 5:15 - 6:30 PM. OEDK Computer Lab* ***Instructors:*** Daniel Falkenstine – Walter P. Moore and Associates Training: ***AutoCAD -*** 2nd in series, Daniel Falkenstine , OEDK Computer Lab – 5:15-6:30 PM ***AutoCAD*** – 3rd in series, Daniel Falkenstine, OEDK Computer Lab – 5:15-6:30 PM
Fri 17-Oct	8	***Discussion: Civil Design Case Study*** *– Site design for layout, grading and utilities* ***Instructor*****:** Charles Penland
Fri 24-Oct	9	***Discussion: Structural and Foundation Design Case Study*** *– gravity load design for building systems* ***Instructors*****:** Joseph Cibor – Fugro South, Inc., Joe Baldridge & Erin Kueht – Walter P Moore.

Rice University
Civil and Environmental Engineering

CEVE 481 Senior Design
Fall 2014 Syllabus

Revised 9-12-2013

Date 2014	Week No.	TOPIC
Fri 31-Oct	10	*Discussion:* ***Project Engineering Concept Design*** – Discussion of key issues to address prior to starting a project. Assignment: Review Concept list and create a key issues approach to the project to be reviewed at the next class **Instructor:** Charles Penland
Fri 7-Nov	11	*Discussion: Review lists and project approach. Prepare for the Concept Design Presentations.*
Fri 14-Nov	12	***Concept Design Presentation of Projects 1 & 2***: Class Discussion follows
Fri 21-Nov	13	***Concept Design Presentation of Projects 3 & 4****:* Class Discussion follows ***GIS Self Taught*** Assignment: Fill out Cass Survey and email to Phil de Blanc
Fri 28-Nov	14	THANKSGIVING
Fri 5-Dec	15	*Discussion****: Engineering Ethics – What would you do if…..*** **Instructors**:

Note:
Any student with a documented disability seeking academic adjustments or accommodations is requested to speak with me during the first two weeks of class. All such discussions will remain as confidential as possible. Students with disabilities will need to also contact Disability Support Services in the Ley Student Center.